

About this manual

It is very important that you understand that this manual as been written to be read from beginning to end and is not an indexed reference. Also it is crucial that you actually try out every new command on your scanner as you read about in this manual to familiarize yourself with the unit. If you follow this advice you will get the most out of this manual.

The outside of the unit.

The front of the **AE 300** comprises, in the bottom one third, a built in loudspeaker and, in the top two thirds, a keyboard and LCD display.

The display shows a number of bits of information which will all be mentioned and explained in the process of explaining the general operation of the unit.

The keypad is made up of 26 keys divided into two distinct groups: The numerical part and the command or function part.

These key will all be explained as you read through this manual.

On the right hand side of the **AE 300** is a small concentric socket used to feed power to the unit for both operation from an external (11 to 16 volt) power source and charging of the internal Ni-Cad. batteries.

On the top of the **AE 300** can be found 4 controls, 3 switches, 1 connector and 1 receptacle. A BNC antenna connector which can be used either to mount an antenna, such as the rubber duck antenna supplied, directly on the unit or for connection to an external antenna and a 3,5mm receptacle for earphones or external speaker of 8 ohms or higher.

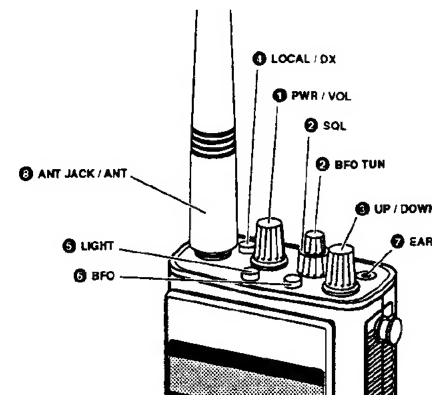
The four controls are volume, squelch, BFO control, the frequency/channel up/down knob.

The three switches are BFO selection switch, LCD light switch and antenna attenuator switch (10dB).

These will be explained later.

Controls and functions

Top Panel



1. PWR (power)Switch and VOL(volume): At fully counter-clockwise position, the **AE 300** is turned off and rotating in clockwise turns on the radio with "click" and further rotation sets the desired level of audio from the receiver.

2. SQL(squelch) and BFO(beat frequency oscillator): SQL is outer knob of the concentric controls on the top panel of the receiver and is provided to eliminate the background noise on unoccupied frequencies, and also to enable the receiver to decide whether or not to stop on a frequency when searching or scanning. Turn the SQL control from the fully counter-clockwise position until the background noise just disappears. This is the most sensitive setting for the SQL. It is usually preferable to advance the squelch control a little way further clockwise than the most sensitive setting to avoid inadvertent stopping on noise or very weak signals. The outer control behind the squelch knob shifts the BFO +/-1.5KHz. This knob does not function unless AM mode is selected and the BFO button is depressed.

3. Dial: This is to move the frequency up and down in search mode, and manual mode and move the channel up and down in scan mode.